



**BAKER COLLEGE**  
**STUDENT LEARNING OUTCOMES**  
CAS2610 Advanced Disease and Technologies  
3 Semester Hours

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**Student Learning Outcomes and Enabling Objectives**

1. Identify altered electrical findings in the MM/2D/Doppler exam.
    - a. Describe how electrical findings in the MM/2D/Doppler impact the echo exam.
    - b. Describe how electrical findings in the MM/2D/Doppler impact echo exam measurements.
  2. Explain transesophageal echocardiography.
    - a. Explain indication/contraindications.
    - b. Explain technique and views.
  3. Interpret congenital heart disease (CHD).
    - a. Describe simple lesions.
    - b. Describe complex lesions.
    - c. Describe echo findings in CHD.
  4. Explain Contrast Echocardiography.
    - a. Describe the importance of Contrast Echocardiography.
    - b. Describe the technique used in Contrast Echocardiography.
  5. Identify cardiac masses.
    - a. Differentiate between various types of cardiac tumors.
    - b. Differentiate between miscellaneous cardiac masses.
  6. Interpret stress echo exams.
    - a. Describe exercise stress echo.
    - b. Describe pharmacological stress echo.
  7. Explain 3D echocardiography.
    - a. Describe indication and contraindications.
    - b. Describe the technique and views.
  8. Explain Strain Echocardiography.
    - a. Describe indication and contraindications.
    - b. Describe the technique and views.
  9. Evaluate case studies and pathologies cumulative to this program.
    - a. Interpret the MM/2D/Doppler exam.
    - b. Calculate required measurements.
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These SLOs are approved for experiential credit.

**Effective: Spring 2018**